

**Flood Control Project Maintenance
Levee Inspections****LMA District Cover Sheet
Spring 2014 Levee Inspection Results****Reclamation District No. 0108 River Farms**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2014 Levee Inspection Results

Reclamation District No. 0108 River Farms

Waterway			Bank	Unit Miles
Unit No. 01 Colusa Basin Drain			Left	20.59
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/26/2014 - 03/26/2014			
DWR Inspector	John Williamson			
Accompanied By	Chad Navarrot RD 108			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.59	03/26/2014 03/26/2014	John Williamson

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				°
					°
DWR ID	DWR_RD0108_01_s _ 2013_5				
Action/Comments					

No Photos

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment				°
					°
DWR ID	DWR_RD0108_01_s_2013_7				
Action/Comments					

No Photos

LM Start		Rating **	A	Issue No.	9
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training				°
					°
DWR ID	DWR_RD0108_01_s_2013_9				
Action/Comments					

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
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U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.59	03/26/2014 03/26/2014	John Williamson

LM Start	0.11	Rating **	A	Issue No.	8
LM End	20.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.823139 °	39.033825 °
				-121.797616 °	-121.993247 °
DWR ID	DWR_RD0108_01_s_2014_8				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: The majority of the vegetation is less then 6 inches.					

Photo 1 of 1 : johngw_s_20140401_692.jpg



The vegetation complies with standards. Spring 2014

LM Start	0.11	Rating **	A	Issue No.	1
LM End	20.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.823139 °	39.033825 °
				-121.797616 °	-121.993248 °
DWR ID	DWR_RD0108_01_s_2014_1				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: The majority of the vegetation is less then 6 nches tall.					

Photo 1 of 1 : johngw_s_20140401_693.jpg



The vegetation complies with standards. Spring 2014

LM Start	3.86	Rating **	C	Issue No.	277
LM End	3.88	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.843048 °	38.843090 °
				-121.862460 °	-121.862807 °
DWR ID	DWR_RD0108_01_f_2013_277				
Action/Comments					
Monitor and have inspected by geotechnical engineer.					

No Photos

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.59	03/26/2014 03/26/2014	John Williamson

LM Start	5.19	Rating **	M	Issue No.	10
LM End	5.19	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.846086 °	38.846086 °
				-121.886834 °	-121.886834 °
DWR ID	DWR_RD0108_01_s_2014_10				
Action/Comments					
Tree or limb					

Photo 1 of 1 : johngw_s_20140401_695.jpg



Tree limbs are along the toe of the levee. Tree is slowly dying and could be a hazard to the levee. Spring 2014

LM Start	9.28	Rating **	A/W	Issue No.	279
LM End	9.28	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.897452 °	38.897452 °
				-121.914680 °	-121.914680 °
DWR ID	DWR_RD0108_01_f_2013_279				
Action/Comments					
Repair slope instability.					

Photo 1 of 2 : johngw_s_20140306_869.jpg



Slope stability with cracking 1-2 inches open and 12 inches deep Fall 2013 The district is monitoring the site.

LM Start	9.28	Rating **	A/W	Issue No.	279 (cont)
LM End	9.28	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : johngw_s_20140306_870.jpg



The cracking runs in a horseshoe pattern on the levee slope Fall 2013

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.59	03/26/2014 03/26/2014	John Williamson

LM Start	9.28	Rating **	A/W	Issue No.	278
LM End	9.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.897453 °	38.897453 °
				-121.914680 °	-121.914680 °
DWR ID	DWR_RD0108_01_f_2013_278				
Action/Comments					
Monitor and have inspected by geotechnical engineer.					

Photo 1 of 1 : johngw_s_20140306_868.jpg



Cracking on the landside levee slope Fall 2013

LM Start	13.75	Rating **	M	Issue No.	11
LM End	13.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.958947 °	38.958947 °
				-121.915623 °	-121.915623 °
DWR ID	DWR_RD0108_01_s_2014_11				
Action/Comments					
Monitor and have inspected by geotechnical engineer.					

Photo 1 of 1 : johngw_s_20140401_696.jpg



Cracking along the shoulder of the levee crown. Spring 2014

LM Start	14.22	Rating **	A/W	Issue No.	280
LM End	14.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.964848 °	38.965205 °
				-121.920245 °	-121.920537 °
DWR ID	DWR_RD0108_01_f_2013_280				
Action/Comments					
Monitor and have inspected by geotechnical engineer.					

Photo 1 of 2 : johngw_s_20140306_871.jpg



Small cracking along the shoulder of the crown, fall 2013.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.59	03/26/2014 03/26/2014	John Williamson

LM Start	14.22	Rating **	A/W	Issue No.	280 (cont)	
LM End	14.24	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Cracking			38.964848 °	38.965205 °	
				-121.920245 °	-121.920537 °	
DWR ID	DWR_RD0108_01_f_2013_280					
Action/Comments						
Monitor and have inspected by geotechnical engineer.						

Photo 2 of 2 : johngw_s_20140306_872.jpg



It appears to have some slope stability issues with the cracking. Fall 2013

LM Start	14.46	Rating **	M	Issue No.	12
LM End	14.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.967243 °	38.967243 °
				-121.923407 °	-121.923407 °
DWR ID	DWR_RD0108_01_s_2014_12				
Action/Comments					
Schedule repair of subsidence prior to the next inspection.					

Photo 1 of 1 : johngw_s_20140401_697.jpg



Cracking along the shoulder of the crown. Some slope instability has occurred. Spring 2014

LM Start	14.54	Rating **	A/W	Issue No.	2
LM End	14.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.968032 °	38.968032 °
				-121.924480 °	-121.924480 °
DWR ID	DWR_RD0108_01_f_2012_2				
Action/Comments					
Monitor and have inspected by geotechnical engineer.					

Photo 1 of 1 : johngw_s_20140306_862.jpg



A crack running along the landside shoulder app. 50' long. Fall 2012

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.59	03/26/2014 03/26/2014	John Williamson

LM Start	14.71	Rating **	M	Issue No.	13
LM End	14.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.969708 °	38.969708 °
				-121.926840 °	-121.926840 °
DWR ID	DWR_RD0108_01_s _ 2014_13				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : johngw_s_20140401_698.jpg



rodent holes along the waterside shoulder of the levee. Spring 2014

LM Start	18.26	Rating **	M	Issue No.	281
LM End	18.26	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.006497 °	39.006497 °
				-121.973158 °	-121.973158 °
DWR ID	DWR_RD0108_01_f _ 2013_281				
Action/Comments					
Prunings					

Photo 1 of 1 : johngw_s_20140306_873.jpg



Piles of prunings are at the waterside berm. Fall 2013

LM Start	18.88	Rating **	M	Issue No.	6
LM End	19.60	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.013245 °	39.021302 °
				-121.980795 °	-121.988557 °
DWR ID	DWR_RD0108_01_s _ 2012_6				
Action/Comments					
Ditch					

Photo 1 of 2 : johngw_s_20140306_865.jpg



Agricultural ditch

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Colusa Basin Drain	Left	20.59	03/26/2014 03/26/2014	John Williamson

LM Start	18.88	Rating **	M	Issue No.	6 (cont)	
LM End	19.60	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			39.013245 °	39.021302 °	
				-121.980795 °	-121.988557 °	
DWR ID	DWR_RD0108_01_s _ 2012_6					
Action/Comments						
Ditch						

Photo 2 of 2 : johngw_s_20140306_866.jpg



Agricultural ditch along toe of landside. Photo taken fall 2011.

LM Start	19.23	Rating **	M	Issue No.	3
LM End	19.23	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			39.016727 °	39.017516 °
				-121.985411 °	-121.986374 °
DWR ID					
Action/Comments					
Inspector Comments: 2011 - Toe scour at the bottom of a steep bank, large sections of the toe are sliding down. Erosion may be due to the upstream bend. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: CBD_19-2_L]					

No Photos

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2014 Levee Inspection Results

Reclamation District No. 0108 River Farms

Waterway			Bank	Unit Miles
Unit No. 02 Castle Properties			Right	0.28
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/25/2014 - 03/25/2014			
DWR Inspector	John Williamson			
Accompanied By	Chad Navarrot RD 108			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Castle Properties	Right	0.28	03/25/2014 03/25/2014	John Williamson

LM Start	0.00	Rating **	M	Issue No.	1
LM End	0.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.799108 °	38.796232 °
				-121.724498 °	-121.727921 °
DWR ID	DWR_RD0108_02_s _ 2014_1				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : johngw_s_20140401_684.jpg



Tall grasses, weeds partially blocks visibility. Spring 2014

LM Start	0.01	Rating **	A/W	Issue No.	3
LM End	0.01	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.798992 °	38.798992 °
				-121.724643 °	-121.724643 °
DWR ID	DWR_RD0108_02_s _ 2013_3				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : johngw_s_20140306_875.jpg



No rodents but holes need to be backfilled. Spring 2013

LM Start	0.02	Rating **	M	Issue No.	5
LM End	0.28	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.798956 °	38.796230 °
				-121.724679 °	-121.727922 °
DWR ID	DWR_RD0108_02_s _ 2014_5				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : johngw_s_20140401_685.jpg



Tall grasses, weeds partially blocks visibility. Spring 2014

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0108 River Farms

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Castle Properties	Right	0.28	03/25/2014 03/25/2014	John Williamson

LM Start	0.09	Rating **	A/W	Issue No.	4
LM End	0.09	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.798196 °	38.798196 °
				-121.725660 °	-121.725660 °
DWR ID	DWR_RD0108_02_f_2012_4				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : johngw_s_20140306_876.jpg



A couple of rodent holes on the landside slope. Fall 2012

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